

1. (Currently Amended) A magnetic tape comprising:

a longitudinally extending nonmagnetic support;

a magnetic layer formed by depositing a plurality of evaporated magnetic films, each having an oblique column-like structure, on a principal surface of said nonmagnetic support so that a growth direction of each of said deposited evaporated magnetic films is opposite to said longitudinal direction, said magnetic layer having a double-layered structure composed of a lower magnetic thin film and an upper magnetic thin film;

a protective layer formed on said magnetic layer; and

a backcoating layer formed on the other surface of said nonmagnetic support,

\_\_\_\_\_ wherein:

a heat-shrinkage ratio in said longitudinal direction and a width direction is defined to be 0.50% or less; ~~and~~

a humidity expansion coefficient is defined to be  $1 \times 10^{-6}/\%$  RH or less after stock at 100 °C and 5 %RH for 30 minutes,

a thickness of said nonmagnetic support is defined to be 4.0  $\mu$ m to 10.0  $\mu$ m so that said heat-shrinkage ratio and said humidity expansion coefficient satisfy said conditions,

a thickness of said magnetic layer is defined to be 10 nm to 75 nm so that said heat-shrinkage ratio and said humidity expansion coefficient satisfy said conditions.

2. (Cancelled).

3. (Cancelled).

4. (Original) The magnetic tape according to claim 1, wherein:

a ratio of a total thickness of said magnetic tape to a thickness of said magnetic layer is defined to be 1000 or less so that said heat-shrinkage ratio and said humidity expansion coefficient satisfy said conditions.

5. (Original) The magnetic tape according to claim 1, wherein:

a width of said magnetic tape is defined to be 1.27 cm.

6. (Original) The magnetic tape according to claim 1, wherein:  
a thickness of said nonmagnetic support is defined to be 4.0  $\mu\text{m}$  to 10.0  $\mu\text{m}$ ;  
a thickness of said magnetic layer is defined to be 10 nm to 75 nm; and  
a ratio of a total thickness of said magnetic tape to a thickness of said magnetic layer is defined to be 1000 or less so that said heat-shrinkage ratio and said humidity expansion coefficient satisfy said conditions.